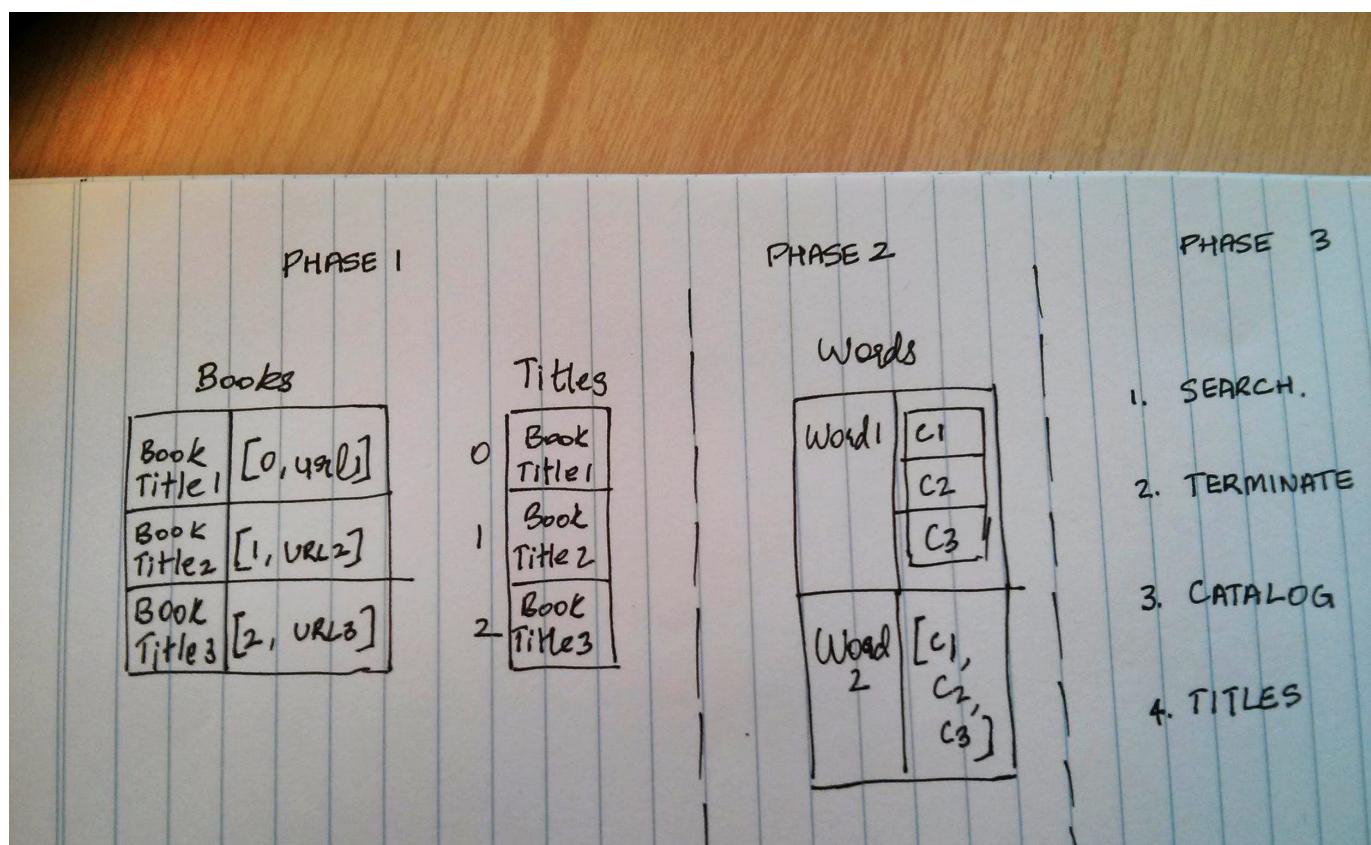


# 206 Section

23 September, 2015

# Overview

- Dictionaries in Python
  - Adding elements
  - Finding and Updating Elements
- Urllib (or Urllib2) to read from a URL



# Urllib2 (<https://docs.python.org/2/library/urllib2.html>)

**Syntax:** urllib2.urlopen(url) simplified

```
import urllib2  
url = ""  
  
Optional (req = urllib2.Request(url))  
try:  
    response = urllib2.urlopen(url)  
    content = response.read()  
except (urllib2.URLError):  
    // terminate
```

## Request and Response

- Request: You are giving it the location to a resource and telling it to read that resource
  - Resource could be missing
  - You may not have access
- Response:
  - The contents of that file
  - Similar to a local file, you need to “read” it

# Suggested Functions

- `ReadCatalog(catalog file)` - Reads the Catalog file and creates the dictionary *Books* and list *Titles*
- `ReadBook(url)` - For each book in *Books*, reads the url, clean the data and call `UpdateWords()`
- `UpdateWords(data)` - for each book modify the *Words* dictionary
- `Search(Words)` - Prints the count, handles terminate, catalog etc.

# Rubric

- Search - 5M
- Catalog - 1M
- Titles - 1M
- Terminate - 1M
- Testing - 2M
- Extra Credit - 2M